

OJ Electronics UWG4-4999

# OJ Microline UWG4-4999 WiFi Touch Screen Programmable Thermostat User Manual

Model: UWG4-4999 | Brand: OJ Electronics

|                              |                                    |  |  |  |
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## 1. INTRODUCTION

This manual provides instructions for the installation, operation, and maintenance of your OJ Microline UWG4-4999 WiFi Touch Screen Programmable Thermostat. This thermostat is designed for electric radiant floor heating systems and features a built-in GFCI, dual sensing (air/floor), and dual voltage capabilities (120V/240V).

The UWG4-4999 offers remote control and monitoring via Android/iOS devices, an intuitive 7-day programming schedule, and an adaptive function for energy efficiency.

## 2. SAFETY INFORMATION

**WARNING: Electrical shock hazard. Installation must be performed by a qualified electrician in accordance with local electrical codes. Disconnect power at the circuit breaker before installation or servicing.**

- Ensure power is OFF before wiring.
- This device contains a Class A GFCI for protection against ground faults. Test the GFCI regularly as per local codes.
- Do not install in locations exposed to direct water spray.
- Operating temperature range: +32 to +104°F (0 to +40°C).

## 3. PACKAGE CONTENTS

Verify that all components are present before beginning installation:

- OJ Microline UWG4-4999 Thermostat
- Floor Sensor

- Mounting Screws
- User Manual (this document)

## 4. SETUP AND INSTALLATION

### 4.1 Wiring Diagram

Refer to the following diagram for proper wiring connections. Ensure all connections are secure and comply with local electrical codes.

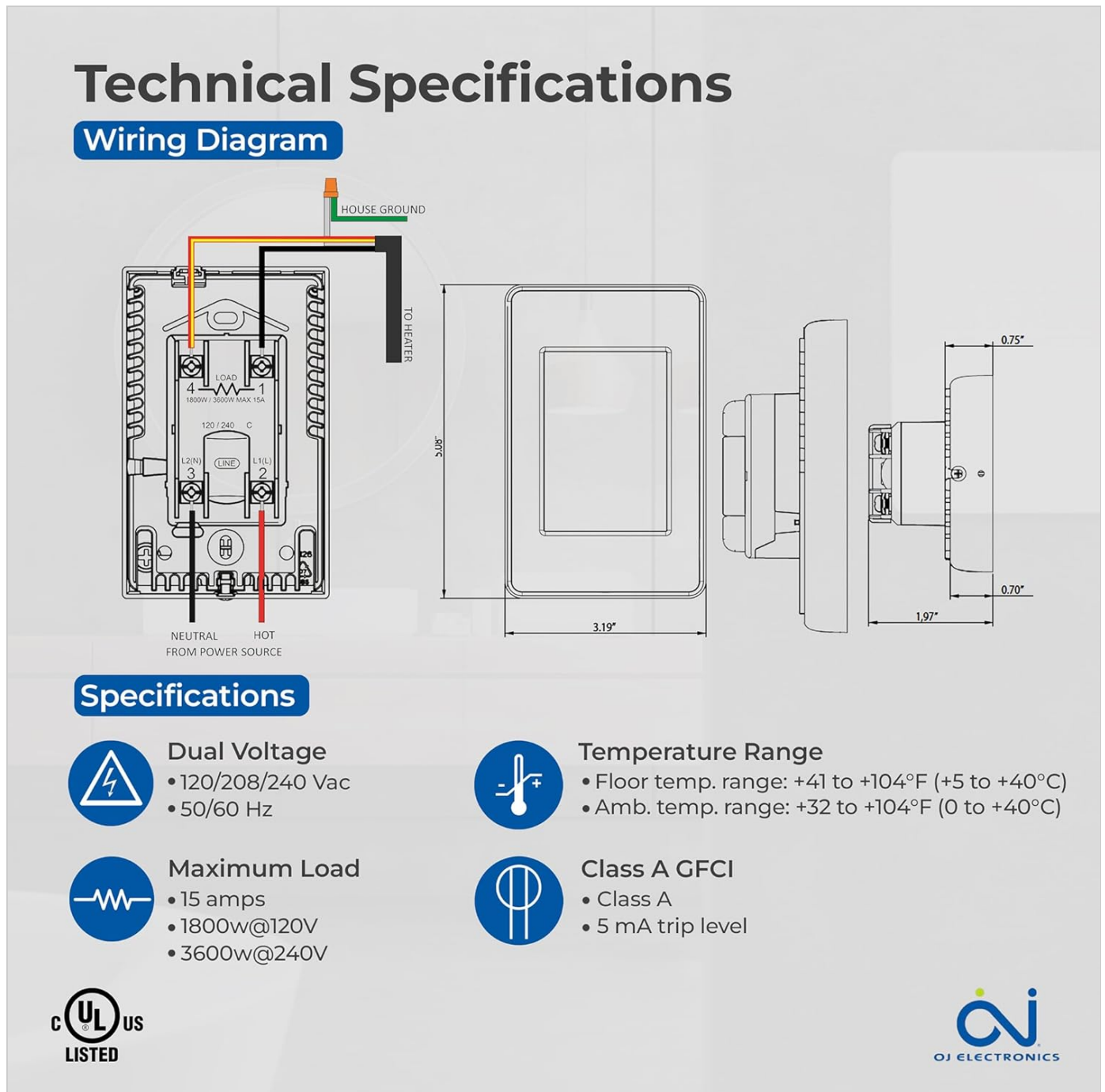


Image: Wiring diagram for the UWG4-4999 thermostat. It illustrates connections for Neutral (from power source), Hot (from power source), House Ground, and connections to the Heater. The diagram also shows the internal components and terminal block layout.

### 4.2 Physical Installation

1. **Power Disconnection:** Turn off power to the heating circuit at the main electrical panel.
2. **Mounting:** Mount the thermostat in a standard electrical box. Ensure the box is clean and free of debris.
3. **Wiring:** Connect the thermostat wires according to the wiring diagram. The thermostat supports dual voltage

(120V/240V).

4. **Floor Sensor Installation:** Install the floor sensor cable in a conduit or directly into the floor, ensuring it is positioned correctly within the heated area. Connect the sensor wires to the designated terminals on the thermostat.
5. **Secure Thermostat:** Secure the thermostat to the electrical box using the provided screws.
6. **Faceplate Attachment:** Attach the decorative faceplate.
7. **Power Reconnection:** Restore power at the main electrical panel.

### 4.3 Initial Setup Wizard

Upon first power-up, the thermostat will guide you through an initial setup wizard on its 3.5" responsive touch color screen. This wizard will help configure basic settings such as date, time, temperature units, and heating mode.



Image: The OJ Microline UWG4-4999 thermostat's touch screen display. It shows the current time (Fri 3:29 PM), outdoor temperature (71°F), current room temperature (72°), and indicates "On Schedule" with the next change set for 74° at 6:00 PM. An "Adjust..." button is visible for manual override.

## 5. OPERATING INSTRUCTIONS

## 5.1 Touch Screen Interface

The thermostat features a 3.5" responsive touch color screen for direct control. Navigate menus and adjust settings by tapping the screen.



Image: A hand with a finger touching the "up" arrow on the OJ Microline UWG4-4999 thermostat's touch screen, indicating a temperature adjustment. The screen displays the current temperature (72°) and schedule information.

## 5.2 Programming a Schedule

The UWG4-4999 supports a 7-day, 4-event programmable schedule. This allows you to customize heating times and temperatures for different periods of the day and week to maximize comfort and energy savings.

1. Access the "Heating Schedule" menu from the main screen.
2. Select the day(s) you wish to program.
3. Set the desired time and temperature for each of the four events (e.g., Morning, Day, Evening, Night).
4. Save your changes.

# Wi-Fi Touch Programmable Thermostat

Remote access and interactive touchscreen display



Image: A smartphone screen showing the "Heating Schedule" interface for Monday. It lists several time slots (e.g., 6:00 AM, 9:00 AM, 12:00 PM, 1:00 PM, 6:00 PM, 11:00 PM) with corresponding set temperatures (e.g., 70°, 72°, 70°, 74°, 62°). This demonstrates the app's scheduling capabilities.

## 5.3 Wi-Fi Connectivity and Remote Control

Connect your thermostat to your home Wi-Fi network to enable remote control and monitoring via the OJ Microline app on your Android or iOS smartphone/tablet.

1. Download the OJ Microline app from your device's app store.
2. Follow the in-app instructions to connect your thermostat to your Wi-Fi network.
3. Once connected, you can adjust settings, view energy usage, and manage schedules from anywhere.

The thermostat supports integration with Google Home and Amazon Alexa for voice control.

# Sleek and Stylish Design

Responsive touch display for easy control



Image: The OJ Microline UWG4-4999 thermostat displayed next to logos for Google Home and Amazon Alexa, indicating its compatibility with these voice control platforms. A smartphone screen showing a heating schedule is also visible in the background.

## 5.4 Special Features

- **Adaptive Function:** The thermostat features an adaptive function that learns your home's heating patterns and adjusts run times to maintain set temperatures efficiently, reducing energy consumption.
- **Child Lock:** Activate the child lock feature to prevent unauthorized changes to settings.
- **Vacation Mode:** Use vacation mode to set a lower, energy-saving temperature for extended periods when you are away.
- **Open Window Mode:** This feature detects sudden drops in temperature (e.g., from an open window) and temporarily pauses heating to save energy.
- **Power Logging:** Access detailed energy usage reports directly on your PC or mobile device through the app.

## 6. MAINTENANCE

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## 6.1 Cleaning

Clean the thermostat's touch screen and casing with a soft, damp cloth. Do not use abrasive cleaners or solvents, as these can damage the surface.

## 6.2 GFCI Testing

The built-in Class A GFCI should be tested monthly to ensure proper operation. Refer to local electrical codes for specific testing requirements.

1. Press the "TEST" button on the thermostat. The heating should turn off.
2. Press the "RESET" button. The heating should resume.
3. If the GFCI does not trip or reset correctly, discontinue use and contact a qualified electrician.

## 7. TROUBLESHOOTING

| Problem                                      | Possible Cause   | Solution   |
|--|--|--|
| Thermostat display is blank.                 | No power to the thermostat.                              | Check circuit breaker. Ensure wiring is correct.   |
| Floor not heating.                           | Heating element issue, GFCI tripped, incorrect settings. | Check GFCI (press RESET). Verify schedule and set temperature. Consult an electrician if heating element is suspected. |
| Wi-Fi connection unstable or not connecting. | Incorrect Wi-Fi password, weak signal, router issue.     | Re-enter Wi-Fi password. Move router closer or use a Wi-Fi extender. Restart router.                                   |
| Temperature reading seems inaccurate.        | Sensor issue, thermostat placement.                      | Ensure floor sensor is properly installed and connected. Avoid placing thermostat near drafts or heat sources.         |

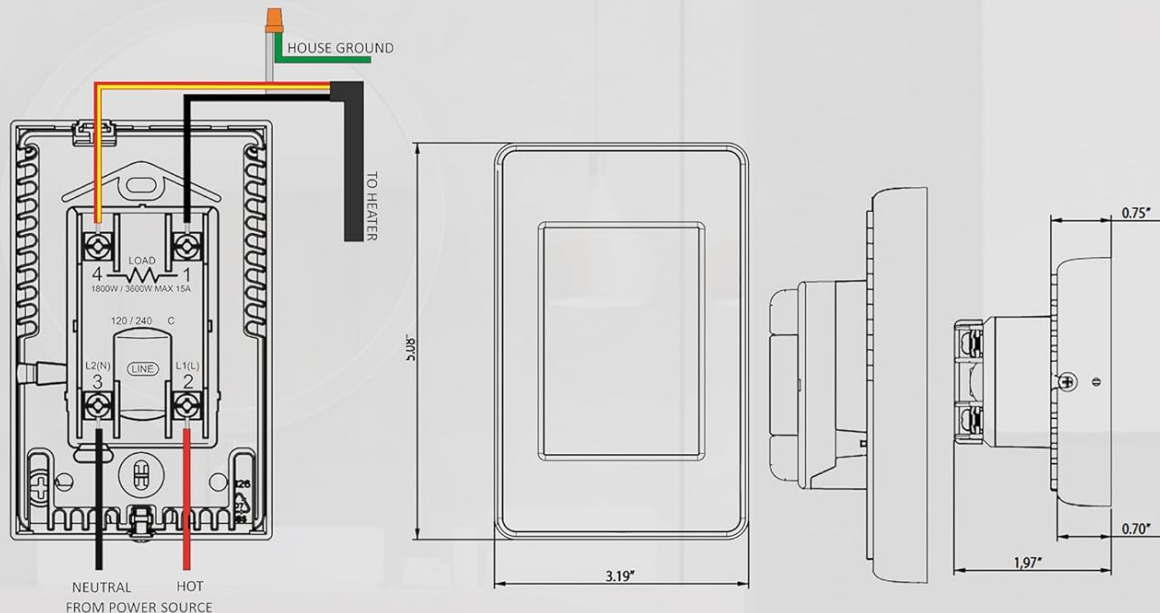
## 8. TECHNICAL SPECIFICATIONS

| Feature                   | Specification   |
|---------------------------|---|
| Model                     | UWG4-4999   |
| Brand                     | OJ Electronics  |
| Voltage                   | 120V/240V AC  |
| Maximum Load              | 15 Amps (1800W @ 120V, 3600W @ 240V)                              |
| GFCI                      | Class A (5 mA trip level)   |
| Sensing                   | Dual Sensing (Air/Floor)  |
| Floor Limit Range         | +41 to +104°F (+5 to +40°C)                                       |
| Ambient Temperature Range | +32 to +104°F (0 to +40°C)  |
| Display                   | 3.5" Responsive Touch Color Screen                                |
| Connectivity              | Wi-Fi, compatible with Android/iOS app, Google Home, Amazon Alexa |

| Feature        | Specification  |
|----------------|--|
| Certifications | C-UL-us Listed, Certified for Wet Room installations |

# Technical Specifications

## Wiring Diagram



## Specifications



### Dual Voltage

- 120/208/240 Vac
- 50/60 Hz



### Temperature Range

- Floor temp. range: +41 to +104°F (+5 to +40°C)
- Amb. temp. range: +32 to +104°F (0 to +40°C)



### Maximum Load

- 15 amps
- 1800w@120V
- 3600w@240V



### Class A GFCI

- Class A
- 5 mA trip level



Image: A detailed graphic showing the technical specifications and wiring diagram for the OJ Microline UWG4-4999 thermostat. It highlights dual voltage, maximum load, temperature ranges, Class A GFCI, and certifications (C-UL-us Listed).

## 9. WARRANTY AND SUPPORT

### 9.1 Limited Factory Warranty

The OJ Microline UWG4-4999 thermostat comes with a **3-Year limited factory warranty**. This warranty covers defects in materials and workmanship under normal use.

For specific terms and conditions of the warranty, please refer to the documentation included with your product or visit the official OJ Electronics website.

### 9.2 Customer Support

For technical assistance, troubleshooting, or warranty claims, please contact OJ Electronics customer support. Contact information can typically be found on the manufacturer's website or in the product packaging.

**Online Resources:** Visit the [OJ Electronics website](#) for FAQs, additional documentation, and support contact details.

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This manual is for informational purposes only. Specifications are subject to change without notice.